

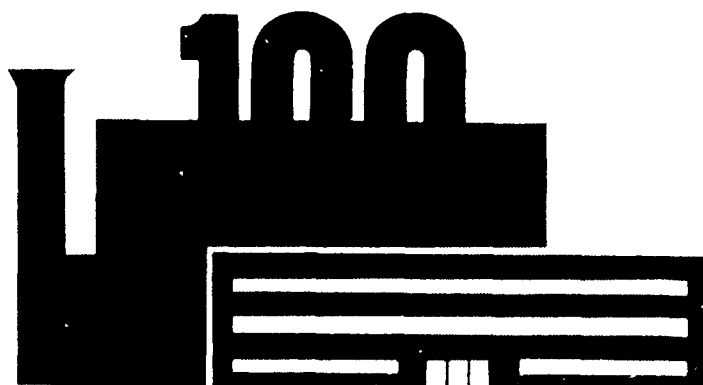
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100 COMPANIES

RECEIVING THE LARGEST DOLLAR VOLUME
OF PRIME CONTRACT AWARDS
Fiscal Year 1983

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Department of Defense

**100 COMPANIES
RECEIVING THE LARGEST DOLLAR VOLUME
OF PRIME CONTRACT AWARDS**

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FOREWORD

This report is published annually by the Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports. It contains summary data on the 100 companies and their subsidiaries which were awarded the largest total dollar volume of Department of Defense prime contract awards during Fiscal Year 1983.

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INTRODUCTION

This report presents summary data on the 100 companies and their subsidiaries receiving the largest dollar volume of Department of Defense (DOD) prime contract awards during Fiscal Year (FY) 1983. Table 1 (page 7) lists the 100 companies in alphabetical order and gives their associated rank. Table 2 (page 9) identifies the parent companies in rank order, with their subsidiaries, and gives the total net value of awards for both the parent company and its subsidiaries. In many cases the parent company receives no awards itself but appears on the list because of its subsidiaries. Table 2 also shows what percent of the total awards each company's awards represent as well as the cumulative percent represented by all companies.

NOTES ON COVERAGE

Data in this report reflect the net value of both debit and credit procurement actions over \$25,000, e.g., the value of a terminated contract or other downward adjustment to a contract is deducted from a firm's total award amount, while modifications and other positive adjustments are treated as increases. Procurement actions include definitive contracts, the obligated portions of letter contracts, job orders, task orders, delivery orders, and any other orders against existing contracts. Research and development, services, construction, and supply and equipment contracts, worldwide, are included.

The report does not include those parts of indefinite quantity contracts that have not been translated into specific orders to business firms, or those contracts that have not yet become mutually binding agreements between the government and the company. The company totals do not include contracts made by other U.S. Government agencies and financed with Department of Defense funds or contracts awarded in foreign nations through their respective governments.

The assignment of subsidiaries to parent companies is based on stock ownership of 50 percent or more by the parent company, as indicated by data published in standard industrial reference sources. The company names and corporate structures are those in effect as of September 30, 1983. For the purposes of this report company names have been retained unless specific knowledge was available that a company has been merged into the parent or absorbed as a division with loss of company identity. Only those subsidiaries are shown for which procurement actions have been reported.

HIGHLIGHTS OF FY 1983 DATA

Department of Defense prime contract awards over \$25,000 totaled \$128.2 billion during FY 1983, \$11.5 billion more than in FY 1982. The 100 firms and their subsidiaries receiving the largest amount of DOD contracts in FY 1983 received \$89.6 billion or 69.9 percent of this amount, primarily for aircraft, missile/space systems, ships, and electronics/communications equipment. In FY 1982, the top 100 companies received \$76.8 billion or 65.9 percent of all awards.

Table A below shows that the first five companies received 20.6 percent of the total received by all companies in FY 1983, compared with 19.6 percent during FY 1982. The company ranked as number one during FY 1983, General Dynamics Corporation, also ranked as number one last year, with awards of \$6.8 billion during FY 1983 as compared to \$5.9 billion last year. The smallest total amount received by a company in the FY 1983 list was \$126 million, compared with \$136 million in FY 1982.

TABLE A

| <u>Company Position</u> | <u>Percent of Total</u> | | | |
|-----------------------------|-------------------------|----------------|----------------|----------------|
| | <u>FY 1980</u> | <u>FY 1981</u> | <u>FY 1982</u> | <u>FY 1983</u> |
| 1st | 4.6% | 4.5% | 5.0% | 5.3% |
| 2nd | 4.2 | 3.9 | 4.8 | 4.8 |
| 3rd | 4.0 | 3.5 | 3.6 | 3.5 |
| 4th | 3.1 | 3.0 | 3.2 | 3.5 |
| 5th | 2.9 | 2.8 | 3.0 | 3.5 |
| TOTAL 1-5 | 18.8 | 17.7 | 19.6 | 20.6 |
| 6-10 | 11.0 | .4 | 11.5 | 13.7 |
| 11-25 | 15.4 | 15.6 | 14.8 | 16.3 |
| TOTAL 1-25 | 45.2 | 43.8 | 45.9 | 50.6 |
| 26-50 | 11.6 | 12.4 | 10.8 | 10.7 |
| 51-75 | 5.8 | 6.4 | 5.7 | 5.3 |
| 76-100 | 3.3 | 3.8 | 3.5 | 3.3 |
| TOTAL 1-100 | 65.9% | 66.4% | 65.9% | 69.9% |

Changes in the Top 100 Companies, FY 1982 to FY 1983

Sixteen contractors who did not appear on the list last year are among the top 100 companies this year. (See Table B, page 3.) Of these, one appears in position 28, one in position 49, and the balance between positions 58 and 100. The sixteen contractors who appeared on the FY 1982 list who do not appear on this year's list are also shown in Table B.

Of the 84 companies appearing on the list in both Fiscal Years 1982 and 1983, 42 advanced their position, 34 are in a lower position, and 8 showed no change. Companies are considered as appearing on the list in both years despite mergers, acquisitions, divestitures, and name changes if a major component of a newly constituted company or the newly constituted company itself made the list as a component of a company in the top 100 in the prior year.

TABLE B**Companies Listed in FY 1983
But not in FY 1982**

Ashland Oil, Inc.
Brunswick Corp.
Caterpillar Tractor Co.
Computer Sciences Corp.
Cubic Corp.
Digital Equipment Corp.
Harsco Corp.
Lear Siegler Inc.
Maersk Lines Ltd.
Ogden Corp.
Rolls Royce Ltd.
Sam Whan Corp.
Southern Union Co.
Sundstrand Corp.
Waterman Marine Corp.
Xerox Corp.

**Companies Listed in FY 1982
But Not in FY 1983**

Agip Petroli SPA
American Motors Corp.
First Colony Farms, Inc.
Getty Oil Co.
Hanil Dev. Co. Ltd & Al Mabani JV
Hospital Corp. of America
Mabco Prefabricated Bldg. Co.
Mi Ryung Construction Co., Ltd.
Peterson Builders Inc.
Phibro Salomon Inc.
Sun Chemical Corp.
Sun Co. Inc.
Texaco Inc.
Transamerica Corp.
United Industrial Corp.
You One Construction Co. Ltd.

Some of the major changes during FY 1983 were the acquisition of Bendix Corp. by Allied Corp.; acquisition of AM General Corp. and Sierra Research Corp. by LTV Corp.; acquisition of Itek Corp. by Litton Industries, Inc., and the name change of International Telephone & Telegraph Corp. to ITT Corp.

Primary Procurement Categories of the Top 100 Companies

Although the contract work of many companies on the list includes more than one procurement category, each company has been assigned in Table C (page 4) to the procurement category that accounts for its largest dollar volume of DOD awards; for example, ITT Corp. is a multi-industry company producing electronic and communications equipment and industrial and consumer products. For this table, it has been assigned to "Electronics", the procurement category accounting for its largest dollar volume of DOD contract awards.

TABLE C

| <u>Procurement Category</u> | <u>Number of Companies</u> | | |
|---------------------------------|----------------------------|----------------|---------------|
| | <u>FY 1983</u> | <u>FY 1982</u> | <u>Change</u> |
| Aircraft | 18 | 15 | +3 |
| Missiles | 9 | 11 | -2 |
| Ships | 7 | 7 | 0 |
| Tank-Automotive | 8 | 6 | +2 |
| Ammunition | 7 | 8 | -1 |
| Electronics | 21 | 20 | +1 |
| Services | 10 | 9 | +1 |
| Construction | 0 | 4 | -4 |
| Petroleum | 16 | 19 | -3 |
| Weapons | 1 | 1 | 0 |
| Subsistence | 0 | 0 | 0 |
| All Other | 3 | 0 | +3 |

Companies With Prime Contract Awards Totaling Over \$2 Billion

During FY 1983, 13 companies received prime contract awards totaling over \$2 billion. Each company is listed in Table D by rank, along with its FY 1982 rank and the dollar value of the awards it received in both FY 1982 and FY 1983. Table E (page 5) describes the major products of these 13 companies.

TABLE D

| <u>Rank</u> | | <u>Company Name</u> | <u>Awards (In Billions)</u> | |
|-------------|-------------|----------------------------------|---------------------------------|-------------|
| <u>1983</u> | <u>1982</u> | | <u>1983</u> | <u>1982</u> |
| 1 | 1 | General Dynamics Corp. | \$6.8 | \$5.9 |
| 2 | 2 | McDonnell Douglas Corp. | 6.1 | 5.6 |
| 3 | 8 | Rockwell International Corp. | 4.5 | 2.7 |
| 4 | 4 | General Electric Co. | 4.5 | 3.7 |
| 5 | 6 | Boeing Co. | 4.4 | 3.2 |
| 6 | 5 | Lockheed Corp. | 4.0 | 3.5 |
| 7 | 3 | United Technologies Corp. | 3.9 | 4.2 |
| 8 | 22 | Tenneco, Inc. | 3.8 | .8 |
| 9 | 7 | Hughes, Howard Medical Institute | 3.2 | 3.1 |
| 10 | 9 | Raytheon Co. | 2.7 | 2.3 |
| 11 | 11 | Grumman Corp. | 2.3 | 1.9 |
| 12 | 10 | Martin Marietta Corp. | 2.3 | 2.0 |
| 13 | 15 | Litton Industries, Inc. | 2.2 | 1.3 |

TABLE E

| <u>Company</u> | <u>Major Products</u> |
|-------------------------------------|---|
| 1. General Dynamics Corp. | F-16 and F-111 fighter aircraft. Nuclear submarines. TOMAHAWK and STINGER missile systems. MK-15 close-in weapon system. M1 tank. |
| 2. McDonnell Douglas Corp. | F-18 HORNET, F-15 EAGLE, AV-8 HARRIER, and KC-10 aircraft. HARPOON missile system. |
| 3. Rockwell International Corp. | B-1 bomber. RDT&E for aircraft, and missile and space systems. Space vehicles. Various electronics and communications equipment. |
| 4. General Electric Co. | Nuclear reactors for submarines and aircraft carriers. J-79, J-85, TF-34, and F-101 turbofan and turbojet engines. Space vehicle components. Guided missile subsystems. Transmission components for M-2 infantry fighting vehicles. Armament training devices. |
| 5. Boeing Co. | C-135 STRATOLIFTER, B-52 STRATO FORTRESS, and E-3A aircraft. Miscellaneous electronics for B-1 bomber. ZAGM-86 missile system. AWACS. RDT&E for electronics & communication equipment, aircraft, missile & space systems and space transportation systems. |
| 6. Lockheed Corp. | C-5 GALAXY, C-130 HERCULES, and P-3 ORION aircraft. TRIDENT and POLARIS missile systems. Amphibious assault ships. RDT&E for missile & space systems, aircraft, and electronics & communication equipment. |
| 7. United Technologies Corp. | F-100, TF-30, TF-33, and J-52 turbofan and turbojet aircraft engines. UH-60 UTTAS, CH-53 SEA STALLION, and SH-60 SEAHAWK helicopters. |
| 8. Tenneco, Inc. | Aircraft carriers. Nuclear submarines. |
| 9. Hughes, Howard Medical Institute | TOW, MAVERICK and PHOENIX missile systems. Radar equipment and guided missile systems for F-14, F-15, AH-1J, B-52 and SR-71 aircraft. RDT&E for electronics & communication equipment, missile & space systems, and ammunition. Equipment for M-1 combat tank and M-2 infantry fighting vehicle. |

TABLE E (Continued)

| <u>Company</u> | <u>Major Products</u> |
|-----------------------------|--|
| 10. Raytheon Co. | PATRIOT, HAWK, SPARROW, NATO SEA SPARROW, and SIDEWINDER missile systems. Various electronics & communication equipment. |
| 11. Grumman Corp. | F-14 TOMCAT, A-6 INTRUDER, E-2 HAWKEYE, C-2 GREYHOUND, and EA-6B PROWLER aircraft. Electronics for F-16 FIGHTING FALCON. RDT&E for aircraft, electronics & communications equipment, and missile & space systems. |
| 12. Martin Marietta Corp. | PERSHING and TITAN missile systems. AH-64 APACHE aircraft. Guided missile cruisers. Operation of Government ammunition facility. RDT&E for missile and space systems, and electronics and communication equipment. |
| 13. Litton Industries, Inc. | Guided missile cruisers, battleships, and destroyers. Various electronics and communications equipment. |

INDEX OF 100 PARENT COMPANIES WHICH WITH THEIR SUBSIDIARIES RECEIVED THE
LARGEST DOLLAR VOLUME OF PRIME CONTRACT AWARDS IN FISCAL YEAR 1983

| RANK | PARENT COMPANY | RANK | PARENT COMPANY |
|------|------------------------------------|------|------------------------------------|
| 68. | AEROSPACE CORP (N) | 96. | LEAR SIEGLER INC |
| 27. | ALLIED CORP | 13. | LITTON INDUSTRIES, INC |
| 24. | AMERICAN TELEPHONE + TELEGRAPH CO | 6. | LOCKHEED CORP |
| 77. | ASHLAND OIL INC | 28. | MAERSK LINE LTD |
| 47. | ATLANTIC RICHFIELD CO | 12. | MARTIN MARIETTA CORP |
| 29. | AVCO CORP | 71. | MASSACHUSETTS INSTITUTE TECHNOLOGY |
| 5. | BOEING CO | 2. | MCDONNELL DOUGLAS CORP |
| 88. | BRUNSWICK CORP | 78. | MITRE (THE) CORP (N) |
| 72. | BURROUGHS CORP | 57. | MOBIL CORP |
| 62. | CATERPILLAR TRACTOR CO | 56. | MORRISON KNUDSEN CO INC |
| 66. | COASTAL CORP | 59. | MORTON THIOKOL INC |
| 86. | COMPUTER SCIENCES CORP | 39. | MOTOR OIL HELLAS |
| 61. | CONGOLEUM CORP | 52. | MOTOROLA INC |
| 64. | CONTROL DATA CORP | 84. | NI INDUSTRIES |
| 99. | CUBIC CORP | 53. | NORTH AMERICAN PHILIPS CORP |
| 100. | DIGITAL EQUIPMENT CORP | 26. | NORTHROP CORP |
| 83. | DUCHOSSOIS THRALL GROUP INC | 58. | OGDEN CORP |
| 80. | DUPONT E I DE NEMOURS + CO | 75. | OSHKOSH TRUCK CORP |
| 54. | E SYSTEMS, INC | 73. | PACIFIC RESOURCES INC |
| 44. | EATON CORP | 41. | PAN AMERICAN WORLD AIRWAYS INC |
| 63. | EMERSON ELECTRIC CO | 67. | PENN CENTRAL CORP |
| 25. | EXXON CORP | 18. | R C A CORP |
| 17. | F M C CORP | 10. | RAYTHEON CO |
| 69. | FAIRCHILD INDUSTRIES, INC | 82. | REYNOLDS R J INDUSTRIES INC |
| 22. | FORD MOTOR CO | 3. | ROCKWELL INTERNATIONAL CORP |
| 30. | G T E CORP | 79. | ROLLS ROYCE LTD |
| 1. | GENERAL DYNAMICS CORP | 51. | ROYAL DUTCH SHELL GROUP |
| 4. | GENERAL ELECTRIC CO | 85. | SAM WHAN CORP |
| 23. | GENERAL MOTORS CORP | 48. | SANDERS ASSOCIATES INC |
| 35. | GENERAL TIRE + RUBBER CO | 91. | SCIENCE APPLICATIONS INTL INC |
| 45. | GOODYEAR TIRE + RUBBER CO | 50. | SIGNAL COMPANIES INC (THE) |
| 60. | GOULD, INC | 32. | SINGER CO |
| 11. | GRUMMAN CORP | 40. | SOBERBIO INC |
| 46. | GUAM OIL + REFINING CO INC | 98. | SOUTHERN UNION CO |
| 76. | GULF OIL CORP | 20. | SPERRY CORP |
| 90. | GULF STATES OIL & REFINING CO | 37. | STANDARD OIL CO OF CALIF |
| 70. | H B H CO | 65. | STANDARD OIL OF INDIANA |
| 42. | HARRIS CORP | 92. | SUNDSTRAND CORP |
| 95. | HARSCO CORP | 19. | T R W INC |
| 55. | HERCULES, INC | 59. | TELEDYNE INC |
| 89. | HEWLETT PACKARD CO | 8. | TENNECO INC |
| 21. | HONEYWELL INC | 33. | TEXAS INSTRUMENTS INC |
| 34. | HUGHES HOWARD ESTATE OF | 31. | TEXTRON INC |
| 9. | HUGHES HOWARD MEDICAL INSTITUTE | 43. | TODD SHIPYARDS CORP |
| 36. | I T T CORP | 7. | UNITED TECHNOLOGIES CORP |
| 15. | INTERNATIONAL BUSINESS MACHINES CO | 97. | VARIAN ASSOCIATES INC |
| 74. | JOHNS HOPKINS UNIVERSITY (N) | 49. | WATERMAN MARINE CORP |
| 93. | KAMAN CORP | 14. | WESTINGHOUSE ELECTRIC CORP |
| 94. | KUWAIT PETROLEUM CORP | 81. | WILLIAMS INTERNATIONAL CORP |
| 16. | L T V CORP | 87. | XEROX CORP |

100 COMPANIES AND THEIR SUBSIDIARIES LISTED ACCORDING TO
NET VALUE OF PRIME CONTRACT AWARDS

FISCAL YEAR 1983
(1 OCT 1982 - 30 SEP 1983)

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|--|--|------------------------|-----------------------------------|
| | T O T A L | \$128,242,123 ===== | 100.00 | 100.00 |
| | TOTAL, 100 COMPANIES + THEIR SUBSIDIARIES | 89,578,443 ===== | 69.85 | 69.85 |
| 1. | GENERAL DYNAMICS CORP DATAGRAPHIX GMBH DATAGRAPHIX INC STROMBERG CARLSON CORP | 6,804,679 47 8,253 5,328 ----- | | |
| | TOTAL | 6,818,307 | 5.32 | 5.32 |
| 2. | MCDONNELL DOUGLAS CORP MCDONNELL DOUGLAS ELECTRONICS CO MCDONNELL DOUGLAS TECHNICAL SVS CO POLHEMUS NAVIGATION SCIENCES INC VITEK SYSTEMS INC | 6,134,947 6,320 1,301 46 102 ----- | | |
| | TOTAL | 6,142,716 | 4.79 | 10.11 |
| 3. | ROCKWELL INTERNATIONAL CORP COLLINS INTERNATIONAL SERVICE CO WESCOM INC | 4,544,214 617 281 ----- | | |
| | TOTAL | 4,545,112 | 3.54 | 13.65 |
| 4. | GENERAL ELECTRIC CO CANADIAN GENERAL ELECTRIC CO, LTD GENERAL ELECTRIC MEDICAL SYSTEMS MANAGEMENT + TECHNICAL SERVICES CO | 4,453,547 1,105 895 62,368 ----- | | |
| | TOTAL | 4,518,015 | 3.52 | 17.17 |
| 5. | BOEING CO B E & C ENGINEERS INC BOEING COMPUTER SERVICES INC BOEING OF CANADA LTD BOEING SERVICES INTERNATIONAL INC BOEING VERTOL CO HYDRAULIC UNITS INC | 4,021,366 838 38,678 63 84,240 269,881 7,684 ----- | | |
| | TOTAL | 4,422,750 | 3.45 | 20.62 |
| 6. | LOCKHEED CORP LOCKHEED CALIFORNIA CO LOCKHEED ELECTRONICS CO, INC LOCKHEED ENGINEERING & MGT SVC CO LOCKHEED MISSILES + SPACE CO INC LOCKHEED SHIPBUILDING CONSTRUCTION LOCKHEED SUPPORT SYSTEMS INC MURDOCK MACHINE + ENGR CO OF TEXAS | 2,063,135 1,855 72,628 2,921 1,516,074 338,235 7,812 3,054 ----- | | |
| | TOTAL | 4,005,714 | 3.12 | 23.74 |
| 7. | UNITED TECHNOLOGIES CORP AMERICAN COMPUTER & ELECTRONICS CO CARRIER INTERNATIONAL CORP | 3,675,206 5,335 1,087 | | |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 7. | UNITED TECHNOLOGIES CORP | | | |
| | ESSEX GROUP INC | 3,173 | | |
| | INMONT CORP | 25 | | |
| | NORDEN SYSTEMS INC | 181,421 | | |
| | OTIS ELEVATOR CO | 934 | | |
| | PRATT + WHITNEY AIRCRAFT OF WVA | 46 | | |
| | UNITED TECHNOLOGIES RESEARCH CTR | 218 | | |
| | TOTAL | 3,867,445 | 3.02 | 26.76 |
| 8. | TENNECO INC | | | |
| | CASE (JI) CO | 75,290 | | |
| | CASE POWER + EQUIPMENT LTD | 237 | | |
| | MONROE AUTO EQUIPMENT CO | 3,221 | | |
| | NEWPORT NEWS SHIPBLD + DRY DOCK CO | 3,683,357 | | |
| | PACKAGING CORP OF AMERICA | 30 | | |
| | TOTAL | 3,762,135 | 2.93 | 29.69 |
| 9. | HUGHES HOWARD MEDICAL INSTITUTE | | | |
| | HUGHES AIRCRAFT CO | 3,151,308 | | |
| | HUGHES COMMUNICATION SERVICES INC | 55,000 | | |
| | SANTA BARBARA RESEARCH CENTER | 33,312 | | |
| | SPECTROLAB INC | 295 | | |
| | TOTAL | 3,239,915 | 2.53 | 32.22 |
| 10. | RAYTHEON CO | 2,501,521 | | |
| | BEECH AEROSPACE SERVICES | 48,824 | | |
| | BEECH AIRCRAFT CORP | 106,771 | | |
| | CALORIC CORP | 60 | | |
| | DENVER BEECHCRAFT | 242 | | |
| | ELECTRICAL INSTALLATIONS LTD | 91 | | |
| | GLENWOOD RANGE CO | 1,111 | | |
| | INDIANA BEECHCRAFT INC | 304 | | |
| | IOWA MFG CO OF CEDAR RAPIDS IOWA | 325 | | |
| | MACHLETT LABORATORIES INC | 195 | | |
| | RAYTHEON DATA SYSTEMS CO | 7,231 | | |
| | RAYTHEON INTERNATIONAL SYSTEMS | 248 | | |
| | RAYTHEON MARINE CO | 2,952 | | |
| | RAYTHEON OCEAN SYSTEMS CO | 200 | | |
| | RAYTHEON PENINSULA SYSTEMS CO | 5,614 | | |
| | RAYTHEON PROCUREMENT CO INC | 2,718 | | |
| | RAYTHEON SERVICE CO | 43,830 | | |
| | RAYTHEON TECHNICAL ASSISTANCE CO | 1,150 | | |
| | SEDCO SYSTEMS INC | 920 | | |
| | SWITCHCRAFT INC | 37 | | |
| | UNITED BEECHCRAFT INC | 94 | | |
| | UNITED ENGINEERS + CONSTRUCTORS | 3,889 | | |
| | TOTAL | 2,728,327 | 2.13 | 34.35 |
| 11. | GRUMMAN CORP | 3,339 | | |
| | GRUMMAN AEROSPACE CORP | 2,291,662 | | |
| | GRUMMAN DATA SYSTEMS CORP | 2,694 | | |
| | TOTAL | 2,297,695 | 1.79 | 36.14 |
| 12. | MARTIN MARIETTA CORP | 2,178,223 | | |
| | MARTIN MARIETTA ALUMINUM INC | 133 | | |
| | MARTIN MARIETTA ALUMINUM SALES INC | 93,583 | | |
| | TOTAL | 2,271,939 | 1.77 | 37.91 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 13. | LITTON INDUSTRIES, INC | 29,433 | | |
| | BELOIT POWER SYSTEMS | 1,037 | | |
| | DIEHL DATA SYSTEMS | 3,119 | | |
| | INTERNATIONAL LASER SYSTEMS INC | 3,632 | | |
| | ITEK CORP | 95,047 | | |
| | LITTON INDUSTRIAL PRODUCTS INC | 5,823 | | |
| | LITTON MICROWAVE COOKING PRODUCTS | 258 | | |
| | LITTON PRECISION PRODS INTL INC | 250 | | |
| | LITTON SYSTEMS INC | 2,029,883 | | |
| | MONROE BUSINESS EQUIPMENT CO INC | 284 | | |
| | MONROE CALCULATING CO | 133 | | |
| | MONROE SYSTEMS FOR BUSINESS | 33 | | |
| | TOTAL | 2,168,932 | 1.69 | 39.60 |
| 14. | WESTINGHOUSE ELECTRIC CORP | 1,774,727 | | |
| | T C O M CORP | 2,235 | | |
| | UNIMATION INC | 62 | | |
| | WESTINGHOUSE INFORMATION SERVICES | 95 | | |
| | WESTINGHOUSE LEARNING CORP | 95 | | |
| | WESTINGHOUSE OVERSEAS SERVICE CORP | 1,121 | | |
| | TOTAL | 1,778,335 | 1.39 | 40.99 |
| 15. | INTERNATIONAL BUSINESS MACHINES CO | 1,419,243 | | |
| | I B M DEUTSCHLAND GMBH | 1,969 | | |
| | I B M INSTRUMENTS INC | 53 | | |
| | TOTAL | 1,421,265 | 1.11 | 42.10 |
| 16. | L T V CORP | | | |
| | A M GENERAL CORP | 569,552 | | |
| | JONES & LAUGHLIN STEEL INC | 143 | | |
| | SIERRA RESEARCH CORP | 60,690 | | |
| | VOUGHT CORP | 712,487 | | |
| | TOTAL | 1,342,872 | 1.05 | 43.15 |
| 17. | F M C CORP | 1,235,589 | | |
| | F M C ASSOCIATES | 181 | | |
| | TOTAL | 1,235,770 | 0.96 | 44.11 |
| 18. | R C A CORP | 1,159,391 | | |
| | HERTZ CORP | 532 | | |
| | HERTZ EQUIPMENT RENTAL CORP | 134 | | |
| | R C A AMERICAN COMMUNICATIONS INC | 9,264 | | |
| | R C A GLOBAL COMMUNICATIONS, INC | 11,803 | | |
| | TOTAL | 1,181,124 | 0.92 | 45.03 |
| 19. | T R W INC | 1,066,330 | | |
| | E S L INC | 53,476 | | |
| | T R W COLORADO ELECTRONICS, INC | 17,032 | | |
| | TOTAL | 1,136,838 | 0.89 | 45.92 |
| 20. | SPERRY CORP | 1,132,502 | 0.88 | 46.80 |
| 21. | HONEYWELL INC | 945,956 | | |
| | ELECTRONICS FOR MEDICINE | 173 | | |
| | HONEYWELL INFORMATION SYSTEMS, INC | 154,803 | | |
| | HONEYWELL MARINE SYSTEMS CENTER | 538 | | |
| | HYDRO PRODUCTS INC | 841 | | |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 21. | HONEYWELL INC | | | |
| | SKINNER PRECISION INDUSTRIES INC | 67 | | |
| | SPECTRONICS INC | 371 | | |
| | TETRA TECH INC | 11,153 | | |
| | TOTAL | 1,113,902 | 0.87 | 47.67 |
| 22. | FORD MOTOR CO | 7,126 | | |
| | FORD AEROSPACE + COMMUNICATIONS | 1,065,160 | | |
| | TOTAL | 1,072,286 | 0.84 | 48.51 |
| 23. | GENERAL MOTORS CORP | 893,440 | 0.70 | 49.21 |
| 24. | AMERICAN TELEPHONE + TELEGRAPH CO | 382,566 | | |
| | AMERICAN BELL INC | 5,382 | | |
| | AMERICAN BELL INTERNATIONAL INC | 413 | | |
| | BELL TELEPHONE CO OF PA | 4,130 | | |
| | CHESAPEAKE & POTOMAC TEL CO | 54,440 | | |
| | CHESAPEAKE + POTOMAC TEL CO OF MD | 4,099 | | |
| | CHESAPEAKE + POTOMAC TEL CO OF VA | 13,214 | | |
| | DIAMOND STATE TEL CO | 572 | | |
| | ILLINOIS BELL TEL CO | 2,116 | | |
| | INDIANA BELL TEL CO, INC | 2,510 | | |
| | MICHIGAN BELL TEL CO | 3,801 | | |
| | MOUNTAIN STATES TEL & TEL | 19,705 | | |
| | NEW ENGLAND TEL + TEL CO | 6,636 | | |
| | NEW JERSEY BELL TELEPHONE CO | 2,937 | | |
| | NEW YORK TELEPHONE CO | 15,311 | | |
| | NORTHWESTERN BELL TELEPHONE CO | 5,735 | | |
| | OHIO BELL TELEPHONE CO | 2,796 | | |
| | PACIFIC NORTHWEST BELL TELEPHONE | 4,329 | | |
| | PACIFIC TELEPHONE + TELEGRAPH CO | 15,149 | | |
| | SOUTH CENTRAL BELL TEL CO | 11,919 | | |
| | SOUTHERN BELL TELEPHONE + TELEGRPH | 17,596 | | |
| | SOUTHERN NEW ENGLAND TELEPHONE CO | 154 | | |
| | SOUTHWESTERN BELL TELEPHONE | 30,351 | | |
| | TELETYPE CORP | 18,374 | | |
| | WESTERN ELECTRIC CO INC | 252,896 | | |
| | WISCONSIN TEL CO | 486 | | |
| | TOTAL | 877,617 | 0.68 | 49.89 |
| 25. | EXXON CORP | 473,024 | | |
| | ESSO A O | 50,577 | | |
| | ESSO ITALIANA S P A | 808 | | |
| | ESSO OFFICE SYSTEMS INC | 556 | | |
| | ESSO PETROL CO LTD | 87 | | |
| | EXXON CO USA | 347,290 | | |
| | EXXON ENTERPRISES INC | 306 | | |
| | EXXON INFORMATION SYSTEM | 43 | | |
| | EXXON RESEARCH + ENGINEERING CO | 40 | | |
| | RELIANCE ELECTRIC CO | 1,484 | | |
| | TOTAL | 874,215 | 0.68 | 50.57 |
| 26. | NORTHROP CORP | 729,741 | | |
| | NORTHROP SERVICES INC | 8,086 | | |
| | NORTHROP WORLDWIDE ACFT SVCS INC | 108,836 | | |
| | TOTAL | 846,663 | 0.66 | 51.23 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 27. | ALLIED CORP | 47,943 | | |
| | BENDIX AUTOLITE CORP | 1,042 | | |
| | BENDIX CORP | 642,494 | | |
| | BENDIX FIELD ENGINEERING CORP | 44,440 | | |
| | COURTER INC | 1,799 | | |
| | ELTRA CORP | 16,387 | | |
| | ENGINEERING RESEARCH INC | 22,096 | | |
| | FISHER SCIENTIFIC CO | 460 | | |
| | FRAM CORP | 468 | | |
| | INSTRUMENTATION LABORATORY INC | 230 | | |
| | MERGENTHALER LINOTYPE CO | 47 | | |
| | TEXGAS CORP | 56 | | |
| | WARNER & SWASEY CO | 786 | | |
| | TOTAL | 778,248 | 0.61 | 51.84 |
| 28. | MAERSK LINE LTD | 690,859 | 0.54 | 52.36 |
| 29. | AVCO CORP | 657,614 | | |
| | AVCO EMBASSY PICTURES CORP | 58 | | |
| | AVCO EVERETT RESEARCH LABORATORY | 17,883 | | |
| | TOTAL | 675,555 | 0.53 | 52.91 |
| 30. | G T E CORP | 300 | | |
| | G T E AUTOMATIC ELECTRIC INC | 1,908 | | |
| | G T E COMMUNICATION PRODUCTS | 159 | | |
| | G T E INTERNATIONAL INC | 96 | | |
| | G T E LABORATORIES, INC | 1,565 | | |
| | G T E LENKURT, INC | 758 | | |
| | G T E PRODUCTS CORP | 616,610 | | |
| | G T E SERVICE CORP | 1,845 | | |
| | GENERAL TELEPHONE CO OF CALIFORNIA | 5,825 | | |
| | GENERAL TELEPHONE CO OF FLORIDA | 5,126 | | |
| | GENERAL TELEPHONE CO OF INDIANA | 639 | | |
| | GENERAL TELEPHONE CO OF KENTUCKY | 129 | | |
| | GENERAL TELEPHONE CO OF NORTHWEST | 998 | | |
| | GENERAL TELEPHONE CO OF OHIO | 839 | | |
| | GENERAL TELEPHONE CO OF SOUTHEAST | 3,226 | | |
| | GENERAL TELEPHONE CO OF SOUTHWEST | 2,217 | | |
| | HAWAIIAN TELEPHONE CO | 31,349 | | |
| | TOTAL | 673,589 | 0.53 | 53.44 |
| 31. | TEXTRON INC | 653,500 | | |
| | BELL HELICOPTER INTL INC | 7,046 | | |
| | BELL TECHNICAL OPERATIONS CORP | 10,534 | | |
| | JACOBSEN MFG CO | 97 | | |
| | TOTAL | 671,177 | 0.52 | 53.96 |
| 32. | SINGER CO | 588,748 | | |
| | H R B SINGER INC | 61,160 | | |
| | TOTAL | 649,908 | 0.51 | 54.47 |
| 33. | TEXAS INSTRUMENTS INC | 646,825 | 0.50 | 54.97 |
| 34. | HUGHES HOWARD ESTATE OF | | | |
| | HUGHES HELICOPTERS INC | 614,708 | | |
| | SUMMA CORP | 11,583 | | |
| | TOTAL | 626,291 | 0.49 | 55.46 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 35. | GENERAL TIRE + RUBBER CO | 2,328 | | |
| | AEROJET ELECTRO SYSTEMS CO | 50,066 | | |
| | AEROJET GENERAL CORP | 312,671 | | |
| | AEROJET LIQUID ROCKET CO | 21,722 | | |
| | AEROJET ORDNANCE & MFG CO | 26,259 | | |
| | AEROJET STRATEGIC PROPULSION CO | 155,420 | | |
| | AEROJET TACTICAL SYSTEMS | 38,258 | | |
| | JOHNSTON PUMP CO | 59 | | |
| | TOTAL | 606,783 | 0.47 | 55.93 |
| 36. | I T T CORP | 295,496 | | |
| | FEDERAL ELECTRIC CORP | 81,887 | | |
| | FELEC SERVICES INC | 118,924 | | |
| | I T T ARCTIC SERVICES | 30 | | |
| | I T T BARTON | 713 | | |
| | I T T BLACKBURN CORP | 227 | | |
| | I T T CONTINENTAL BAKING CO | 1,741 | | |
| | I T T COURIER TERMINAL SYSTEMS INC | 1,252 | | |
| | I T T ELECTRO OPTIC PRODUCTS | 13,890 | | |
| | I T T GENERAL CONTROLS, INC | 1,078 | | |
| | I T T GILFILLAN INC | 70,244 | | |
| | I T T GRINNELL CORP | 34 | | |
| | I T T GWALTNEY INC | 4,753 | | |
| | I T T HAMMEL DAHL CONOFLOW | 397 | | |
| | I T T HARPER, INC | 136 | | |
| | I T T HENZE SERVICE | 25 | | |
| | I T T JENNINGS | 758 | | |
| | I T T MACKAY MARINE | 40 | | |
| | I T T MARLOW PUMPS | 146 | | |
| | I T T TELECOMMUNICATIONS CORP | 1,380 | | |
| | I T T WORLD COMMUNICATIONS, INC | 9,493 | | |
| | J C C PUMP CO INC | 534 | | |
| | U S TRANSMISSION SYSTEMS | 187 | | |
| | TOTAL | 603,365 | 0.47 | 56.40 |
| 37. | STANDARD OIL CO OF CALIF | | | |
| | CALTEX ASIA LTD | 34 | | |
| | CALTEX NEW ZEALAND, INC | 56 | | |
| | CALTEX OIL PRODUCTS CO | 76,932 | | |
| | CHEVRON CHEMICAL CO | 66 | | |
| | CHEVRON INTERNATIONAL OIL CO, INC | 33 | | |
| | CHEVRON U S A INC | 513,746 | | |
| | TOTAL | 590,867 | 0.46 | 56.86 |
| 38. | TELEDYNE INC | 77,903 | | |
| | MICRONETICS INC | 35 | | |
| | TELEDYNE ADCOM | 32 | | |
| | TELEDYNE AEROSPACE SYSTEMS | 464 | | |
| | TELEDYNE AVIONICS | 1,877 | | |
| | TELEDYNE BROWN ENGINEERING | 58,780 | | |
| | TELEDYNE C A E | 27,691 | | |
| | TELEDYNE CAMERA SYSTEMS | 2,029 | | |
| | TELEDYNE CAST PRODUCTS | 72 | | |
| | TELEDYNE CONTINENTAL MOTORS | 154,319 | | |
| | TELEDYNE CONTROLS | 5,424 | | |
| | TELEDYNE CRYSTALONICS | 79 | | |
| | TELEDYNE ELECTRO MECHANISMS | 120 | | |
| | TELEDYNE ELECTRONICS | 31,336 | | |
| | TELEDYNE FARRIS ENGINEERING | 511 | | |
| | TELEDYNE FIRTH STERLING INC | 2,340 | | |
| | TELEDYNE GEOTECH | 3,622 | | |
| | TELEDYNE GEOTRONICS | 118 | | |
| | TELEDYNE GURLEY | 39 | | |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|---------------------------------|----------------------------|------------------------|-----------------------------------|
| 38. | TELEDYNE INC | | | |
| | TELEDYNE HASTINGS RAYDIST | 859 | | |
| | TELEDYNE HYDRA POWER | 1,967 | | |
| | TELEDYNE INDUSTRIES, INC | 157,740 | | |
| | TELEDYNE INET INC | 1,594 | | |
| | TELEDYNE LANDIS MACHINE CO | 806 | | |
| | TELEDYNE LEWISBURG | 163 | | |
| | TELEDYNE M E C | 44,654 | | |
| | TELEDYNE MCCORMICK SELPH | 6,995 | | |
| | TELEDYNE MCKAY | 231 | | |
| | TELEDYNE MICROELECTRONICS | 348 | | |
| | TELEDYNE MONARCH RUBBER | 912 | | |
| | TELEDYNE NECSHO | 230 | | |
| | TELEDYNE PHILBRICK | 37 | | |
| | TELEDYNE PINES | 337 | | |
| | TELEDYNE RELAYS | 40 | | |
| | TELEDYNE REPUBLIC MFG | 1,925 | | |
| | TELEDYNE SPRAGUE ENGINEERING | 765 | | |
| | TELEDYNE THERMATICS | 807 | | |
| | TELEDYNE VASCO | 90 | | |
| | TELEDYNE WALTERBORO | 1,041 | | |
| | TELEDYNE WESTERN WIRE & CABLE | 47 | | |
| | TELEDYNE WISCONSIN MOTOR | 394 | | |
| | TOTAL | 588,773 | 0.46 | 57.32 |
| 39. | MOTOR OIL HELLAS | 587,159 | 0.46 | 57.78 |
| 40. | SOBERBIO INC | | | |
| | PRIDE REFINING INC | 456,888 | | |
| | TOTAL | 456,888 | 0.36 | 58.14 |
| 41. | PAN AMERICAN WORLD AIRWAYS INC | 90,605 | | |
| | PAN AMERICAN WORLD SERVICES INC | 359,317 | | |
| | TOTAL | 449,922 | 0.35 | 58.49 |
| 42. | HARRIS CORP | 446,122 | 0.35 | 58.84 |
| 43. | TODD SHIPYARDS CORP | 444,284 | 0.35 | 59.19 |
| 44. | EATON CORP | 441,778 | 0.34 | 59.53 |
| 45. | GOODYEAR TIRE + RUBBER CO | 75,371 | | |
| | DEUTSCHE GOODYEAR GMBH | 85 | | |
| | GOODYEAR AEROSPACE CORP | 361,444 | | |
| | MOTOR WHEEL CORP | 3,762 | | |
| | TOTAL | 440,662 | 0.34 | 59.87 |
| 46. | GUAM OIL + REFINING CO INC | 379,283 | 0.30 | 60.17 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|--|--|--|---|
| 47. | ATLANTIC RICHFIELD CO ANACONDA CO ARCO PETROLEUM CO ARCO PIPE LINE CO ERICSSON INC TOTAL | 284,867 53 74,957 226 1,784 ----- 361,887 | 0.28 | 60.45 |
| 48. | SANDERS ASSOCIATES INC CALIFORNIA COMPUTER PRODUCTS INC TOTAL | 352,363 1,378 ----- 353,741 | 0.28 | 60.73 |
| 49. | WATERMAN MARINE CORP WATERMAN STEAMSHIP CORP TOTAL | 345,474 ----- 345,474 | 0.27 | 61.00 |
| 50. | SIGNAL COMPANIES INC (THE) AERO HYDRAULICS INC AIRSUPPLY CO AMPEX CORP AMPEX EUROPA GMBH DUNHAM BUSH INC GARRETT CORP (THE) GARRETT MFG LTD GARRETT PNEUMATICS CO GARRETT TURBINE MACK TRUCKS INC U O P INC UNIVERSAL OIL PRODUCTS CO WHEELABRATOR FRYE TOTAL | 44 542 18,238 116 717 300,591 259 11,791 5,155 629 1,052 1,913 1,263 ----- 342,310 | 0.27 | 61.27 |
| 51. | ROYAL DUTCH SHELL GROUP SHELL CHEMICAL INC SHELL EASTERN PETROLEUM PTE LTD SHELL INTERNATIONAL SHELL OIL CO SHELL UK LTD TOTAL | 363 120,140 15,911 198,887 244 ----- 335,545 | 0.26 | 61.53 |
| 52. | MOTOROLA INC CODEX CORP FOUR PHASE SYSTEMS INC MOTOROLA SEMICONDUCTOR PRODUCTS UNIVERSAL DATA SYSTEMS INC TOTAL | 294,142 11,294 15,222 132 488 ----- 321,278 | 0.25 | 61.78 |
| 53. | NORTH AMERICAN PHILIPS CORP AIRPAX ELECTRONICS INC AIRPAX PRODUCTS AMPEREX ELECTRONIC CORP ANCHOR BRUSH CO INC GENERAL ATRONICS CORP MAGNAVOX ADVANCED PROD & SYS CO MAGNAVOX CO MAGNAVOX DATA SYSTEMS INC MAGNAVOX GOVT + INDUSTRIAL ELEC CO MEPCO ELECTRA INC NORTH AMERICAN PHILIPS CONTROLS CO NORTH AMERICAN PHILIPS LTG CORP PHILIPS ELECTRONIC INSTRUMENTS INC | 1,565 425 1,085 3,821 77 10,132 12,740 104,006 253 168,738 576 103 2,096 842 | | |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|--|---|------------------------|-----------------------------------|
| 53. | NORTH AMERICAN PHILIPS CORP PHILIPS ELMET CORP PHILIPS MEDICAL SYSTEMS INC S & H X RAY CO THE | 26 5,253 107 ----- | | |
| | TOTAL | 311,845 | 0.24 | 62.02 |
| 54. | E SYSTEMS, INC SERV AIR INC | 304,697 4,844 ----- | | |
| | TOTAL | 309,541 | 0.24 | 62.26 |
| 55. | HERCULES, INC ADRIA LABORATORIES INC | 307,408 605 ----- | | |
| | TOTAL | 308,013 | 0.24 | 62.50 |
| 56. | MORRISON KNUDSEN CO INC FERGUSON H K CO NATIONAL STEEL & SHIPBUILDING CO | 8,662 1,376 297,836 ----- | | |
| | TOTAL | 307,874 | 0.24 | 62.74 |
| 57. | MOBIL CORP CONTAINER CORP OF AMERICA HOME OIL CO THE HYDRO CONDUIT CORP MOBIL OIL CORP MOBIL SHIPPING & TRANSPORTATION CO | 69 132 1,951 293,283 122 ----- | | |
| | TOTAL | 295,557 | 0.23 | 62.97 |
| 58. | OGDEN CORP AVONDALE SHIPYARDS INC OGDEN FOOD PRODUCTS CORP | 292,300 272 ----- | | |
| | TOTAL | 292,572 | 0.23 | 63.20 |
| 59. | MORTON THICKOL INC | 281,167 | 0.22 | 63.42 |
| 60. | GOULD, INC DEVICES & COMPONENTS CO I T E IMPERIAL CORP SYSTEMS ENGINEERING LABS INC | 260,234 43 7,720 10,339 ----- | | |
| | TOTAL | 278,336 | 0.22 | 63.64 |
| 61. | CONGOLEUM CORP BATH IRON WORKS CORP | 277,815 ----- | | |
| | TOTAL | 277,815 | 0.22 | 63.86 |
| 62. | CATERPILLAR TRACTOR CO SOLAR TURBINES INTERNATIONAL SOLAR TURBINES OVERSEAS LTD TOWMOTOR CORP | 196,386 74,858 44 2,839 ----- | | |
| | TOTAL | 274,127 | 0.21 | 64.07 |
| 63. | EMERSON ELECTRIC CO APPLETON ELECTRIC CO ATWOOD & MORRILL CO INC FLOW TECHNOLOGY INC | 238,741 419 138 245 ----- | | |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|--|--|------------------------|-----------------------------------|
| 63. | EMERSON ELECTRIC CO ROSEMOUNT INC SOUTHWEST TRUCK BODY CO TOTAL | 8,108 25,869 ----- 273,520 | 0.21 | 64.28 |
| 64. | CONTROL DATA CORP SERVICE BUREAU CORP THE TOTAL | 273,360 48 ----- 273,408 | 0.21 | 64.49 |
| 65. | STANDARD OIL OF INDIANA AMOCO OIL CO AMOCO UNITED KINGDOM TOTAL | 256,736 12,990 ----- 269,726 | 0.21 | 64.70 |
| 66. | COASTAL CORP BELCHER NEW ENGLAND INC BELCHER OIL CO BELCHER TERMINALS INC COASTAL STATES MARKETING INC PACIFIC REFINING CO TOTAL | 5,973 44,745 827 212,843 3,988 ----- 268,376 | 0.21 | 64.91 |
| 67. | PENN CENTRAL CORP AUTOMATION INDUSTRIES INC G & H TECHNOLOGIES INC G K TECHNOLOGIES INC MARATHON BATTERY CO MARATHON LE TOURNEAU CO SPRAGUE ELECTRIC CO TOTAL | 250,123 399 3,776 8,427 772 987 ----- 264,484 | 0.21 | 65.12 |
| 68. | AEROSPACE CORP (N) | 260,474 | 0.20 | 65.32 |
| 69. | FAIRCHILD INDUSTRIES, INC AMERICAN SATELLITE CORP GREER HYDRAULICS INC V S I CORP TOTAL | 252,267 5,129 381 2,213 ----- 259,990 | 0.20 | 65.52 |
| 70. | H B H CO | 251,001 | 0.20 | 65.72 |
| 71. | MASSACHUSETTS INSTITUTE TECHNOLOGY | 250,151 | 0.20 | 65.92 |
| 72. | BURROUGHS CORP BURROUGHS CONTROL CORP MEMOREX CORP SYSTEM DEVELOPMENT CORP TOTAL | 124,659 1,783 11,994 90,590 ----- 229,026 | 0.18 | 66.10 |
| 73. | PACIFIC RESOURCES INC GASCO INC HAWAIIAN INDEPENDENT REFINERY INC | 3,963 223,542 | | |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|--|----------------------------|------------------------|-----------------------------------|
| 73. | PACIFIC RESOURCES INC P R I NORTHWEST INC | 1,148 | | |
| | TOTAL | 228,653 | 0.18 | 66.28 |
| 74. | JOHNS HOPKINS UNIVERSITY (N) | 227,175 | 0.18 | 66.46 |
| 75. | OSHKOSH TRUCK CORP | 224,454 | 0.18 | 66.64 |
| 76. | GULF OIL CORP | 49,838 | | |
| | G A TECHNOLOGIES | 8,339 | | |
| | GULF PETROLEUM SA | 132 | | |
| | GULF REFINING & MARKETING CO | 258 | | |
| | HARSHAW CHEMICALS CO | 392 | | |
| | TRANSOCEAN GULF OIL CO | 152,760 | | |
| | TOTAL | 211,719 | 0.17 | 66.81 |
| 77. | ASHLAND OIL INC | 174,998 | | |
| | ALLIED OIL CO | 1,681 | | |
| | ASHLAND CHEMICAL CO | 1,165 | | |
| | ASHLAND CONSTRUCTION CO | 2,566 | | |
| | ASHLAND PETROLEUM CO | 320 | | |
| | DREW CHEMICAL CORP | 29 | | |
| | EASTERN SEABOARD PETROLEUM CO, INC | 4,629 | | |
| | FILTROL CORP | 274 | | |
| | HOLMES & NARVER INC | 5,870 | | |
| | RILEY BEAIRD INC | 841 | | |
| | RILEY STOCKER CORP | 13,937 | | |
| | TOTAL | 206,310 | 0.16 | 66.97 |
| 78. | MITRE (THE) CORP (N) | 206,007 | 0.16 | 67.13 |
| 79. | ROLLS ROYCE LTD | 201,558 | 0.16 | 67.29 |
| 80. | DUPONT E I DE NEMOURS + CO | 10,095 | | |
| | CONOCO INC | 39,052 | | |
| | CONOCO LTD | 5,644 | | |
| | ENDO LABORATORIES, INC | 1,020 | | |
| | REMINGTON ARMS CO, INC | 145,179 | | |
| | TOTAL | 200,990 | 0.16 | 67.45 |
| 81. | WILLIAMS INTERNATIONAL CORP | 200,595 | 0.16 | 67.61 |
| 82. | REYNOLDS R J INDUSTRIES INC | 1,192 | | |
| | DEL MONTE CORP | 24,862 | | |
| | DEL MONTE SALES CO | 2,181 | | |
| | HEUBLEIN SPIRITS & WINE CO | 1,004 | | |
| | REYNOLDS R J TOBACCO CO | 31,490 | | |
| | SEA LAND INDUSTRIES USA INC | 42 | | |
| | SEA LAND SERVICE INC | 129,856 | | |
| | TOTAL | 190,627 | 0.15 | 67.76 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|---|---|------------------------|-----------------------------------|
| 83. | DUCHOSSOIS THRALL GROUP INC CHAMBERLAIN MFG CORP THRALL CAR MFG CO | 186,033 94 | | |
| | TOTAL | 186,127 | 0.15 | 67.91 |
| 84. | NI INDUSTRIES NORRIS INDUSTRIES INC NORRIS NI INDUSTRIES | 5,174 175,846 1,324 | | |
| | TOTAL | 182,344 | 0.14 | 68.05 |
| 85. | SAM WHAM CORP | 178,881 | 0.14 | 68.19 |
| 86. | COMPUTER SCIENCES CORP | 173,700 | 0.14 | 68.33 |
| 87. | XEROX CORP FUJI-XEROX CO, LTD KOREA XEROX CO LTD RANK XEROX ESPANOLA S A RANK XEROX LTD XEROX COLLEGE PUBLISHING XEROX LEARNING SYSTEMS | 162,382 1,825 796 87 2,776 72 537 | | |
| | TOTAL | 168,475 | 0.13 | 68.46 |
| 88. | BRUNSWICK CORP DEVILS LAKE SIOUX MFG CO LANGLEY CORP ROYAL MFG CO SHERWOOD MEDICAL INDUSTRIES, INC | 112,434 48,460 262 53 1,766 | | |
| | TOTAL | 162,975 | 0.13 | 68.59 |
| 89. | HEWLETT PACKARD CO | 160,472 | 0.13 | 68.72 |
| 90. | GULF STATES OIL & REFINING CO | 155,767 | 0.12 | 68.84 |
| 91. | SCIENCE APPLICATIONS INTL INC SCIENCE APPLICATIONS INC | 152,508 | | |
| | TOTAL | 152,508 | 0.12 | 68.96 |
| 92. | SUNDSTRAND CORP FALK CORP SUNDSTRAND AIRCRAFT SERVICE SUNDSTRAND DATA CONTROL INC SUNDSTRAND HYDRAULICS | 136,665 104 606 12,237 391 | | |
| | TOTAL | 150,003 | 0.12 | 69.08 |
| 93. | KAMAN CORP BRUNO C & SON INC KAMAN AEROSPACE CORP KAMAN SCIENCES CORP KAMAN TEMPO KAMATICS CORP | 50,710 70 63,040 17,850 2,370 4,067 | | |
| | TOTAL | 138,107 | 0.11 | 69.19 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|---|------------------------------------|------------------------|-----------------------------------|
| 94. | KUWAIT PETROLEUM CORP KUWAIT NATIONAL PETROLEUM CO | 137,980 | | |
| | TOTAL | 137,980 | 0.11 | 69.30 |
| 95. | HARSCO CORP BRÖDERICK CO PATTERSON KELLEY CO | 136,074 27 34 | | |
| | TOTAL | 136,135 | 0.11 | 69.41 |
| 96. | LEAR SIEGLER INC | 134,681 | 0.11 | 69.52 |
| 97. | VARIAN ASSOCIATES INC PULSE ENGINEERING INC SEMICON ASSOCIATES INC VARIAN GRAPHICS VARIAN INSTRUMENTS | 128,007 4,583 74 47 42 | | |
| | TOTAL | 132,753 | 0.10 | 69.62 |
| 98. | SOUTHERN UNION CO SOUTHERN UNION GAS CO SOUTHERN UNION REFINING CO | 12,675 119,685 | | |
| | TOTAL | 132,360 | 0.10 | 69.72 |
| 99. | CUBIC CORP CUBIC WESTERN DATA UNITED STATES ELEVATOR CORP | 128,472 653 538 | | |
| | TOTAL | 129,663 | 0.10 | 69.82 |
| 100. | DIGITAL EQUIPMENT CORP | 126,017 | 0.10 | 69.92 |